

USSN: 10/533,847
 Dkt. No.: 8325-0034
 S34-US1



PATENT

CERTIFICATE OF MAILING PURSUANT TO 37 CFR § 1.8

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12/8/05
 Date

Michelle Hobson
 Signature

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

Fyodor URNOV et al.

Serial No.: 10/533,847

International Appl. No. PCT/US03/37044

International Filing Date: November 17, 2003

Title: METHODS AND COMPOSITIONS
 FOR ANALYSIS OF REGULATORY
 SEQUENCES

Examiner:

Group Art Unit:

Confirmation No.: 7879

Customer No.: 20855

INFORMATION DISCLOSURE STATEMENT TRANSMITTAL

Commissioner for Patents
 P.O. Box 1450
 Alexandria, VA 22313-1450

Dear Sirs:

Enclosed is an Information Disclosure Statement and accompanying Form
 PTO/SB/08A for the above-identified patent application.


- ☒ In accordance with 37 C.F.R. §1.97(b), no additional fee for submission of the IDS is required.
- ☐ In accordance with 37 C.F.R. §1.97(c), also enclosed is:
- ☐ the fee of \$180.00 as set forth in 37 C.F.R. §1.17(p); or
- ☐ a statement as specified in 37 C.F.R. §1.97(e).

- ☐ In accordance with 37 C.F.R. §1.97(d), a statement as specified in 37 C.F.R. § 1.97(e) and the fee of \$180.00 as set forth in 37 C.F.R. §1.17(p) are also enclosed.
- ☐ Check No. ____ in the amount of \$____ for the total fee is attached.
- ☒ A return receipt postcard is also enclosed.
- ☐ Please charge \$_____ to Deposit Account No. 18-1648 for the total fee. This paper is being submitted in duplicate.

The Commissioner is hereby authorized to charge any appropriate fees under 37 C.F.R. §§1.16, 1.17, and 1.21 that may be required by this paper, and to credit any overpayment, to Deposit Account No. 18-1648.

Respectfully submitted,

Date: December 8, 2005

By: 
Dahna S. Pasternak
Registration No. 41,411

ROBINS & PASTERNAK LLP
1731 Embarcadero Road, Suite 230
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UNDER 37 C.F.R. §1.97(b)**

Commissioner for Patents
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Alexandria, VA 22313-1450

Dear Sirs:

In accordance with the duty of disclosure set forth in 37 C.F.R. §1.56,
Applicant(s) hereby submits the following information in conformance with 37 C.F.R.
§§1.97 and 1.98.

- ☒ Pursuant to 37 C.F.R. §1.98, copies of the Foreign Patent Documents and Non Patent Literature Documents cited in the attached Form PTO/SB/08 are enclosed.
- ☒ No copy of the U.S. publications listed on the attached Form PTO/SB/08A are being provided because the Office waives the requirement under 37 C.F.R. 1.98 (a) (2) (i) for submitting a copy of each cited U.S. patent and

each U. S. patent application publication for all U.S. national patent applications filed after June 30, 2003

- ☐ No copies of the publications listed on the attached Form PTO/SB/08A are being provided pursuant to 37 C.F.R. §1.98(d) because the publications were previously cited by or submitted to the Office in prior Application Serial No. _____ to which the above-identified application claims priority under 35 U.S.C. §120.
- ☐ Publication(s) _____ listed on the attached Form PTO/SB/08A were cited in a foreign search or examination report corresponding to PCT application serial no. _____ and mailed on _____.
- ☐ Enclosed is a copy of a non-English publication(s) _____. Pursuant to §609 of the M.P.E.P., Applicant submits the attached foreign search or examination report, which cites such non-English language publication(s).
- ☐ Enclosed is a copy of a non-English publication(s) _____. English language publication _____ (copy enclosed) claims priority from this non-English publication.
- ☐ Enclosed is an explanation of non-English publication(s) _____ for which an English translation is not available.
- ☐ Enclosed is an English translation of non-English publication(s) _____ cited in the attached Form PTO/SB/08A.
- ☐ Enclosed is a copy of pending patent Application Serial No. _____.

This Information Disclosure Statement is filed within any one of the following time periods:


- ☐ within three months from the filing date of this national application other than a CPA under 37 C.F.R. § 1.53(d);
- ☐ within three months from the date of entry of the national stage as set forth in 37 C.F.R. §1.491 in this international application;
- ☒ before the mailing date of a first office action on the merits; or
- ☐ before the mailing of a first office action after the filing of a request for continued examination under 37 C.F.R. §1.114.

This Information Disclosure Statement under 37 CFR § 1.97 is not to be construed as a representation that: (i) a complete search has been made; (ii) additional information material to the examination of this application does not exist; (iii) the information, protocols, results and the like reported by third parties are accurate or enabling; or (iv) the above information constitutes prior art to the subject invention.

It is respectfully requested that the Examiner consider the above-noted information and return an initialed copy of the attached Form PTO/SB/08A to the undersigned.

Respectfully submitted,

Date: December 8, 2005

By: 
Dahna S. Pasternak
Registration No. 41,411

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PTO/SB/08A (08-00)

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>			Complete if Known		
			Application Number	10/533,847	
			Filing Date	November 17, 2005	
			First Named Inventor	URNOV, et al.	
			Group Art Unit	Unknown	
			Examiner Name	Unknown	
Sheet	1	of	9	Attorney Docket Number	8325-0034 (S34-US1)

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
		Number	Kind Code ² (if known)		
	A1	5,176,996		Hogan, et al.	01-05-1993
	A2	5,413,854		Sato	05-09-1995
	A3	5,422,251		Fresco	06-06-1995
	A4	5,436,142		Wigler, et al.	07-25-1995
	A5	5,489,678		Fodor, et al.	02-06-1996
	A6	5,501,964		Wigler, et al.	03-26-1996
	A7	5,525,471		Zeng	06-11-1996
	A8	5,585,245		Johnsson, et al.	12-17-1996
	A9	5,695,937		Kinzler, et al.	12-09-1997
	A10	5,744,305		Fodor, et al.	04-28-1998
	A11	5,766,891		Shuman	06-16-1998
	A12	5,789,538		Rebar, et al.	08-04-1998
	A13	5,792,640		Chandrasegaran	08-11-1998
	A14	5,801,155		Kutyavin, et al.	09-01-1998
	A15	5,807,522		Brown	09-15-1998
	A16	5,866,330		Kinzler, et al.	02-02-1999
	A17	5,925,523		Dove, et al.	07-20-1999
	A18	5,935,830		Meyer, et al.	08-10-1999
	A19	5,958,738		Lindemman, et al.	09-28-1999
	A20	5,998,140		Dervan, et al.	12-07-1999
	A21	6,007,988		Choo, et al.	12-28-1999
	A22	6,090,947		Dervan, et al.	07-18-2000
	A23	6,013,453		Choo, et al.	01-11-2000
	A24	6,110,426		Shalon, et al.	08-29-2000
	A25	6,127,121		Meyer, et al.	10-03-2000
	A26	6,140,081		Barbas	10-31-2000
	A27	6,200,759		Dove, et al.	03-13-2001
	A28	6,312,894		Hedgpeth, et al.	11-06-2001
	A29	6,326,489		Church, et al.	12-04-2001
	A30	6,453,242		Eidenburg, et al.	09-17-2002
	A31	6,485,906		Meyer, et al.	11-26-2002
	A32	6,492,346		Hedgpeth, et al.	12-10-2002
	A33	6,503,717		Case, et al.	01-07-2003
	A34	6,511,808		Wolffe, et al.,	01-28-2003
	A35	6,534,261		Cox, et al.	03-18-2003
	A36	6,543,261		Kolton, et al.	04-08-2003
	A37	6,548,021		Church, et al.	04-15-2003
	A38	6,576,424		Fodor, et al.	06-10-2003
	A39	6,599,692		Case, et al.	07-29-2003
	A40	6,600,031		Fodor, et al.	07-29-2003
	A41	6,607,882		Cox, et al.	08-19-2003

Examiner Signature		Date Considered	
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¹ Unique citation designation number.

² See attached Kinds of U.S. Patent Documents.

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FOREIGN PATENT DOCUMENTS							
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		Office ⁵	Number ⁶	Kind Code			
	B1	WO	95/19431	A1	The Scripps Research Institute	07-20-1995	
	B2	WO	96/06166	A1	Medical Research Council	02-29-1996	
	B3	WO	98/44350	A1	The Board of Trustees of the Leland Stanford Junior University	10-08-1998	
	B4	WO	98/53057	A1	Medical Research Council	11-26-1998	
	B5	WO	98/53058	A1	Medical Research Council	11-26-1998	
	B6	WO	98/53059	A1	Medical Research Council	11-26-1998	
	B7	WO	98/53060	A1	Medical Research Council	11-26-1998	
	B8	WO	98/54311	A1	The Scripps Research Institute	12-03-1998	
	B9	WO	00/27878	A1	Gendaq Ltd.	05-18-2000	
	B10	WO	00/41566	A1	Sangamo BioSciences, Inc.	07-20-2000	
	B11	WO	01/60970	A2	Toolgen, Inc.	08-23-2001	
	B12	WO	01/83732	A2	Sangamo BioSciences, Inc.	11-08-2001	
	B13	WO	02/16536	A1	Kao Corporation	02-28-2002	
	B14	WO	02/099084	A2	Sangamo BioSciences, Inc.	12-12-2002	
	B15	WO	02/18648	A2	President and Fellows of Harvard College	03-07-2002	
	B16	WO	03/016496	A2	The Scripps Research Institute	02-27-2003	

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⁴ See attached Kinds of U.S. Patent Documents.

⁵ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3).

⁶ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

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Sheet	3	of	9	Attorney Docket Number	8325-0034 (S34-US1)

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		T ¹
	C1	Alberts, "Fractionation of Nucleic Acids in Dextran-Polyethylene Glycol Two-Phase Systems," <i>Methods in Enzymology</i> 12:566-581 (1967)		
	C2	Archer, et al., "Exonuclease III as a Probe of Chromatin Structure in vivo," <i>Methods of Enzymology</i> 304:584-599 (1999)		
	C3	Berg & Shi, "The Galvanization of Biology: A Growing Appreciation for the Roles of Zinc," <i>Science</i> 271:1081-1085 (1996)		
	C4	Bird, "The Essentials of DNA Methylation," <i>Cell</i> 70:5-8 (1992)		
	C5	Bird, et al., "Methylation-induced Repression \320 Belts, Braces, and Chromatin," <i>Cell</i> 99:451-454 (1999)		
	C6	Birell, et al., "Transcriptional Response of Saccharomyces Cerevisia to DNA Damaging Agents Does Not Identify the Genes that Protect Against these Agents," <i>Proc. Nat. Acad. Sci USA</i> 99:8778-8783 (2002)		
	C7	Bringmann, et al., "Antibodies Specific for N6-methyladenosine React With Intact snRNPs U2 and U4/U6," <i>FEBS Lett.</i> 213:309-315 (1987)		
	C8	Bulger, et al., "ChIPs of the Beta-Globin Locus: Unraveling Gene Regulation Within an Active Domain," <i>Curr Opin Genet Dev</i> 12:170-177 (2002)		
	C9	Cartwright, et al., "Cleavage of Chromatin With Methidiumpropyl-EDTA · Iron(II)," <i>PNAS USA</i> 80:3213-3217 (1983)		
	C10	Cox, et al., "Contemporary and Emergent Pharmacological Therapies for Chronic Pain: Nonopoid Analgesia," <i>Expert Rev. Neurotherapeutics</i> 1:81-91 (2002)		
	C11	Dayhoff, "Atlas of Protein Sequences and Structure," M. O. Dayhoff, ed., National Biomedical Research Foundation, Washington D.C., USA, 5 Supl. 3:353-358 (1978)		

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	C12	Elgin, "The Formation and Function of DNase I Hypersensitive Sites in the Process of Gene Activation," <i>J. Biol. Chem.</i> 263 :19259-19262 (1988)		
	C13	Fields, et al., "A novel genetic system to detect protein-protein interactions," <i>Nature</i> 340 :245-246 (1989)		
	C14	Galas, "Sequence Interpretation. Making Sense of the Sequence," <i>Science</i> 291 :1257-1260 (2001)		
	C15	Ghosh, <i>et al.</i> , "PDZK1 and GREB1 are Estrogen- Regulated Genes Expressed in Hormone- Responsive Breast Cancer," <i>Cancer Res</i> 60 :6367-6375 (2000)		
	C16	Giaver, <i>et al.</i> , "Functional Profiling of the Saccharomyces Cerevisiae Genome," <i>Nature</i> 418 :387-391 (2002)		
	C17	Gilmour, et al., "Detecting Protein-DNA Interactions in vivo: Distribution of RNA Polymerase on Specific Bacterial Genes," <i>PNAS USA</i> 81 :4275-4279 (1984)		
	C18	Greene, et al., "Sequence of the Bacteriophage SP01 Gene Coding for Transcription Factor I, a Viral Homologue of the Bacterial Type II DNA-Binding Proteins," <i>PNAS USA</i> 81 :7031-7035 (1984)		
	C19	Gottgens, <i>et al.</i> , "Analysis of Vertebrate SCL Loci Identifies Conserved Enhancers," <i>Nat Biotechnol</i> 18 :181-186 (2000)		
	C20	Gribskov, "Sigma factors from E. coli, B. subtilis, phage SP01, and phage T4 are homologous proteins," <i>Nucl. Acids Res.</i> 14 (6):6745-6763 (1986)		
	C21	Gross, <i>et al.</i> , "Nuclease Hypersensitive Sites in Chromatin," <i>Ann Rev. Biochem</i> 57 :159-197 (1988)		
	C22	Hebbes, <i>et al.</i> , "Core Histone Hyperacetylation Co-Maps with Generalized Dnase I Sensitivity in the Chicken b-Globin Chromosomal Domain," <i>Embo J.</i> 13 :1823-1830 (1994)		
	C23	Henderson, <i>et al.</i> , "Hormonal Carcinogenesis," <i>Carcinogenesis</i> 21 :427-433 (2000)		

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	C24	Hendrich, et al., "Identification and Characterization of a Family of Mammalian Methyl-CpG Binding Proteins," <i>Mol. Cell. Biol.</i> 18 :6538-6547 (1998)		
	C25	Hertzberg, et al., "Cleavage of DNA With Methidiumpropyl-EDTA-iron(II): Reaction Conditions and Product Analyses," <i>Biochemistry</i> 23 :3934-3945 (1984)		
	C26	Hoopes, et al., "Studies on the selectivity of DNA precipitation by spermine," <i>Nucleic Acids Res.</i> 9 :5493-5504 (1981)		
	C27	Horak, et al. "GATA-1 Binding Sites Mapped in the Beta- Globin Locus by Using Mammalian chip-chip Analysis," <i>Proc. Natl. Acad. Sci. USA</i> 99 :2924-2929 (2002)		
	C28	Ibrahim, et al., "The Evolving Role of Specific Estrogen Receptor Modulators (SERMS)," <i>Surg Oncol</i> 8 :103-123 (1999)		
	C29	Johnson, et al., "Dissecting Long-Range Transcriptional Mechanisms by Chromatin Immunoprecipitation," <i>Methods</i> 26 :27-36 (2002)		
	C30	Jones, et al., "Cancer Epigenetics Comes of Age," <i>Nature Genet.</i> 21 :163-167 (1999)		
	C31	Joung, et al., "A Bacterial Two-Hybrid Selection System for Studying Protein-DNA and Protein-Protein Interactions," <i>PNAS USA</i> 97 :7382-7387 (2000)		
	C32	Kimura, et al., "On The DNA Binding Protein II From Bacillus Stearothermophilus. II. The Amino Acid Sequence And Its Relation To Those Of Homologous Proteins From Other Prokaryotes," <i>J. Biol. Chem.</i> 258 :4007-4011 (1983)		
	C33	Kladde, et al., "Direct Study Of DNA-Protein Interactions In Repressed And Active Chromatin In Living Cells," <i>EMBO J.</i> 15 :6290-6300 (1996)		
	C34	Kozlova, et al., "Steroid Regulation of Postembryonic Development and Reproduction in Drosophila," <i>Trends Endocrinol Metab.</i> 11 :276-280 (2000)		
	C35	Krichevsky, et al., "A Microrna Array Reveals Extensive Regulation Of Micromas During Brain Development," <i>RNA</i> 9 (10):1274-1281 (2003)		

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	C36	Kuo, et al., "In Vivo Cross-Linking And Immunoprecipitation For Studying Dynamic Protein: DNA Associations In A Chromatin Environment," <i>Methods</i> 19:425-433 (1999)		
	C37	Lisitsyn, et al., "Representational Difference Analysis in Detection of Genetic Lesions in Cancer," <i>Methods in Enzymology</i> 254:291-304 (1995)		
	C38	Lisitsyn, et al., "Cloning the differences between two complex genomes," <i>Science</i> 259:946-951 (1993)		
	C39	Liu, et al., "A Four-Base Paired Genetic Helix with Expanded Size," <i>Science</i> 302:868-871 (2003)		
	C40	Martone, et al., "Distribution Of NF- κ B-Binding Sites Across Human Chromosome 22," <i>Proc. Natl. Acad. Sci. USA</i> 100:12247-12252 (2003)		
	C41	Maxam, et al., "Sequencing End-Labeled DNA With Base-Specific Chemical Cleavages," <i>Meth. Enzymology</i> , 65: 499-560 (1980)		
	C42	McGall, et al., "High-Density Genechip Oligonucleotide Probe Arrays," <i>Adv. Biochem. Eng. Biotechnol.</i> 77:21-42 (2002)		
	C43	Misteli & Spector, "Applications Of The Green Fluorescent Protein In Cell Biology And Biotechnology," <i>Nature Biotechnology</i> 15:961-964 (1997)		
	C44	Mueller, et al., "Ligation-Mediated PCR for Genomic Sequencing and Footprinting," <i>Current Protocols in Molecular Biology</i> 15.3.1-15.3.26 (2001)		
	C45	Mullikin, et al., "An SNP Map Of Human Chromosome 22," <i>Nature</i> 407:516-520 (2000)		
	C46	Nal, et al., "Location Analysis of DNA-Bound Proteins at the Whole-Genome Level: Untangling Transcriptional Regulatory Networks," <i>Bioessays</i> 23:473-476 (2001)		
	C47	O'Neill, et al., "Immunoprecipitation Of Chromatin," <i>Methods in Enzymology</i> 274:189-197		

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			First Named Inventor	URNOV, et al.	
			Group Art Unit	Unknown	
			Examiner Name	Unknown	
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Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ¹	
	C48	Pennachio, et al., "Genomic Strategies to Identify mammalian Regulatory Sequences," <i>Nat Rev Genet</i> 2:100-109 (2001)		
	C49	Pfeifer, G. et al., "Genomic footprinting by ligation mediated polymerase chain reaction," In White, B. (ed.) PCR protocols: Current Methods and Applications, Methods in Molecular Biology, vol. 15, 153-168, Humana Press Inc, Totowa, NJ, USA (1993)		
	C50	Pilpel, et al., "Identifying Regulatory Networks by Combinatorial Analysis of Promoter Elements," <i>Nat Genet</i> 29:153-159 (2001)		
	C51	Ren, et al., "Genome-Wide Location and Function of DNA Binding Proteins," <i>Science</i> 290:2306-2309 (2000)		
	C52	Ren, et al., "E2F Integrates Cell Cycle Progression with DNA Repair, Replication, and G(2)/M Checkpoints," <i>Genes Dev</i> 16:245-256 (2002)		
	C53	Rice, et al., "Recognition Of Native DNA Methylation By The PvuII Restriction Endonuclease," <i>Nucleic Acids Res.</i> 28:3143-3150 (2000)		
	C54	Robertson, et al., "Dna Methylation: Past, Present And Future Directions," <i>Carcinogenesis</i> 21:461-467 (2000)		
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	C56	Rouviere-Yaniv, et al., <i>Cold Spring Harbor Symp. Quant Biol.</i> 42:439-447 (1977)		
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	C59	Sieweke, "Detection of Transcription Factor Partners with Yeast One Hybrid Screen," <i>Methods Mol. Biol</i> 130:59-77		

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	C60	Smith & Waterman, "Comparison of Biosequences," <i>Advances in Applied Mathematics</i> 2:482-489 (1981)		
	C61	Solomon, et al., "Formaldehyde-Mediated DNA-Protein Crosslinking: A Probe for in vivo Chromatin Structures," <i>Proc. Natl. Acad. Sci. USA</i> 82:6470-6474 (1985)		
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	C66	Urnov, "Chromatin Remodeling As A Guide To Transcriptional Regulatory Networks In Mammals," <i>J. Cell. Biochem.</i> 84:684 (2003)		
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	C68	Urnov, et al. "Designed Transcription Factors as Structural, Functional and Therapeutic Probes of Chromatin in Vivo: Fourth in Review Series on Chromatin Dynamics," <i>EMBO</i> 3:610-615 (2002)		
	C69	Van Steensel, et al., "Identification Of In Vivo DNA Targets Of Chromatin Proteins Using Tethered Dam Methyltransferase," <i>Nature Biotechnology</i> 18:424-428 (2000)		
	C70	Verreault, "De Novo Nucleosome Assembly: New Pieces in an Old Puzzle," <i>Genes Dev</i> 14:1430-1438 (2000)		
	C71	Wasserman, et al., "Chromatin," <i>Methods in Enzymology</i> Academic Press, San Diego, Vol. 304 (1999)		

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